First Semester FYUGP Degree (Reg/Sup) Examination November 2025
KU1DSCCSC101 - FUNDAMENTALS OF PROGRAMMING WITH C
2024 Admission onwards

Time : 1.5 hours   Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. What is a header file? Provide examples of commonly used header files in C.

2. What are the advantages of using flowcharts in programming?

3. Write a C program to print the first 5 natural numbers using while loop

4. Explain the do-while loop with an example.

5. What is a multidimensional array in C? Provide an example of how to declare a 2D array.

6. What is a character array in C?

7. What are the usage of the printf() and scanf()functions.

8. Write a C program to check whether the given number is even or odd.

Section B

Answer any 4 questions. Each carry 6 marks.

9. Discuss the declaration and initialization of two-dimensional arrays with examples.

10. Write a program to read 'n' integers and sort them in ascending or descending order as per user's choice.

11. Briefly explain two dimensional array of strings in C.

12. Describe the formatted input function in detail, with example.

13. Write a program to find the roots of a quadratic equation.

14. Discuss the use of conditional operator over if else in C. Use an example to illustrate.

Section C

Answer any 1 questions. Each carry 14 marks.

15. Draw the flowchart and write a C program to do the basic arithmetic operations.

16. Discuss looping control structures do-while and while in C, with practical examples.